


**Support for collector shoe on carrier in pantograph of electric vehicle**

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**Inventor:** MUELLER HANS JOSEF (DE); WALBROEL BRUNO (DE)  
**Applicant:** RINGSDORFF WERKE GMBH (DE)  
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- **international:** *B60L5/20; B60L5/18; (IPC1-7): B60L5/20; B60L5/28*  
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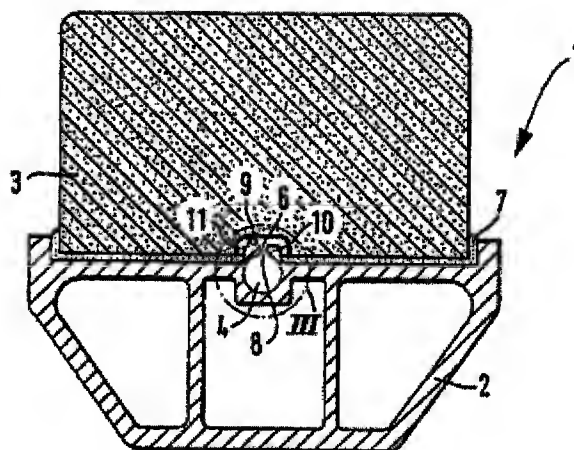
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**Abstract of DE4425460**

An electric vehicle has an overhead current collector with a contact shoe (3) on a carrier (2). The carrier has a groove (4), open to the base of the shoe and closed at the end faces. There is pressurised fluid in the groove. If a certain drop in the pressure occurs, the pantograph is lowered. The mouth (8) of the groove is covered with an elastic material which presses against the base of the shoe. The pressure channel is sealed from the contact shoe over its whole length with a seal (6). The closure seal is under pressure. The pressure drops if the seal is damaged due to pressure. The width of the mouth is between 0.5 and 5 millimetres. The groove is wider below the mouth than at the mouth; for example, it is a circular slot. The base of the shoe may be plane or have a channel in it.



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**Monitoring device for a current collector sliding strip.****Publication number:** EP0525595**Publication date:** 1993-02-03**Inventor:** GRONDINGER GUENTER (AT); MUELLER GEORG DIPL-ING (AT)**Applicant:** SIEMENS AG (DE)**Classification:****- international:** B60L5/20; B60L5/28; B60L5/18; (IPC1-7): B60L5/20**- european:** B60L5/20; B60L5/28**Application number:** EP19920112464 19920721**Priority number(s):** AT19910001496 19910726**Also published as:**

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**Cited documents:**

DE8803377U



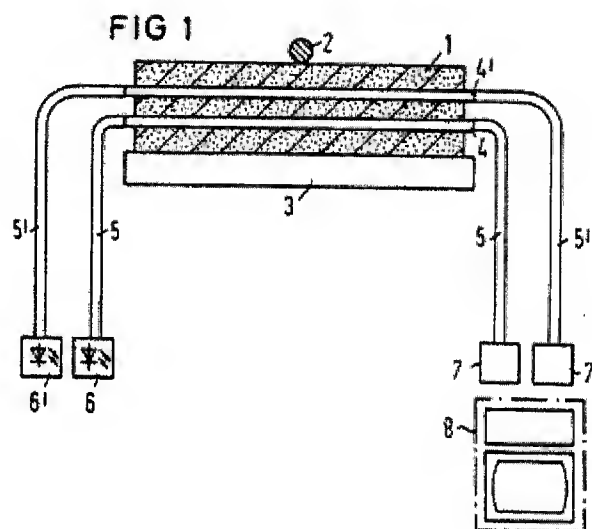
EP0269307



DE3147453

[Report a data error here](#)**Abstract of EP0525595**

A monitoring device for current collector sliding strips (1) is disclosed, in which a plurality of optical waveguides (4) are embedded in the current collector sliding strip. In this way, a continuous monitoring of the wear state of the current collector sliding strip is possible.



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